an VIII 6; 197 Vatur u y Nav. Jentlemen! I gestering reveined with the liveliest satisfaction the two romain, ring quarters of your elaborate and beautiful map of the moon's surface together with the treatise arrow panying them as also your maps of the surface of Mars. Tray avocast my best shanks for this esteerned and valuable present, and at the same time my hearty congrabulations on the confection of a work of such very great labour and difficulty as well as importance. The want of such mayes has long been felt and regretted. Had the Missionanies to whom they were intrusted arrived two months later, we should pave quitted the Cape I expect to arrive in England some time in May and it is not impossible that during the Summer I may have the pleasure to thank you in person for this mark of your attention, as I propose visiting Hunever soon after my arrival in England, and if Aime will permit should be very desirous to come as far as Berlin - if it were only for the sake of saying my respects to yourselves and your ad mirable Enote! When last I whole to you on the receipt of your former maps, I spoke with heritation above the 6th (20) Salellise of Saturn. Since that hime fin May last) I have has the satisfaction of observing it several times in a most unequivocal manner, and fracing it through several revolutions in its orbit. Bal the yth (1) lelu, ded all my research. The great Refractor preparing for the Vetersburg Observatory will however; I hope, show it? I have also procured a fine Teries of micro, metrical measures of all the other sutellises in every Wheativa with respect to the primary - the closest and smallest of them being easily observed at its superior and inferior conjunctions. The measures are referred at once to the rings major axis by a peruliar model of observation which gives such very good and accorn ging results that I only regret no having his )

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A and B are swo very thick parallel wires, distant enough so take in easily between them the plane I and Phing, I measu, re the apparent elongation or the angle or In of a Satellike a from the line of I Ansac or the angle a Sa, The planet in first place between the wires so as in fig I) to sland symme, frically of which the eye will judge with leatherne precision the graduated division being read off. They are next placed as in fig 2. and it is surprising how very correctly with a little practice this may be some so that the line In shall be parallel to the direction of the wires. This being done after, nakely 3,5 or Thines ( so as to leave off with the position No 1.) - all change of siduation with respect to the horizon So. is eliminated. is one of very great interest. The Star of Argus (marked in Bode's Map as of Robus Caroli) has always Shitherto been pegarded as a star of the second magnitude or at most as (21) Turing she form years I have had fit as it were) continually under my eye, by reason of the great nebula which I have been taking most careful trainings I have always considered it as (2.1) and never has reason to suppose it variable. In Nav 1837 I vaw it as usual, Judge of my surprise to find on the 16.17. December that it had suddenly become a Har of the first may, nitude and almost equal to Rigel . - It continued to increase. Rigel is now not to be comprehed to it, it exceeds Archives, and is very nearly equal to & Butauri, being at the moment when I write, the fourth Has in the blavens in order of brightness! I remains, genslemen, your obliged and faithful Fernant P. S. You will ablige me by communicating the above mention ned fact respecting of Angus to Prof. Thumacher, as perhaps he may think it worth nothing in the Astron. Nachrichten of R. The total evipe of the moon last year was finely seen here. The whole list was well seen with the nacked eye, intensely med like a glowing coal \_ all the spots will reculin the besope - many occultations sook place of very minute stars and a faind nebula was traced up almost to the very edge of the discin it would have been interesting under to have Ten water of holds I seen a nebula occulter.